

**ABSTRACT OF THE DISCLOSURE**

A charging circuit for a frequency converter having a first feed line with a first constant current source therein and a second feed line with a second constant current source therein. An intermediate circuit capacitor connected between the first feed line and the second feed line, wherein the first constant current source that limits a charging current of the intermediate circuit capacitor. An electronic control device that controls both the first constant current source and the second constant current source in parallel.